



proposal 1

Overview:

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This project is mainly inspired by food delivery and online shopping, we want to integrity those ideas into this project to offer customers a more personalized and convenient online shopping website.

Tools:

In this project, we will use react as the major front-end platform, and use Ant design as a reference to our UI framework. NodeJs and ExpressJs will be our back-end platforms. The database will be the PostgreSQL, which is a relational database.

Details and Features:

Each customer will associate with a distinct personal account which will record all shopping transactions and his personal information. Thus, the website requires **sign in** before the customer makes a transaction and sign up if it is a new user. In user personal account, we will keep information such as **contact information**, **address**, past **shopping histories**, and **credit card** information which require advanced security protection.

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From the main page of our **website**, there are two routes you can go: one for the **direct shopping**, and another one for **viewing recipes**. For the main shopping page, we will list all the items that are currently available. Items are **currently on sale** will be **listed on the top**. Users can easily **specify the items** they want to buy on the search bar instead of browsing through the whole website page. For example, if we **search for a price** for that particular item in the past few months, and make a **prediction about the price** in the next month. Also, we will illustrate the **prediction table** for them. Once the customer has made a couple of transactions, we can predict the most-likely item he will buy next time, and list the items on top of the page. We can also predict the health status for that customer according to his past **shopping history** and provide some reasonable suggestions accordingly.

If the user links to the recipe page, there will be a list of recipes sorted from the most popular to least popular. If the user is interested in any of the recipes, he can add it to his favourite list, write some comments at the bottom of the recipe or simply give a thumbs-up or thumbs-down. The rating will be shifted up or down according to the user feedback. All the ingredients in the recipes are clickable, which will directly link the customer to the corresponding shopping page and customer can buy needed items. Of course, the page will provide users a step-by-step procedure to make this food.

Once the customer has selected all the items, we will calculate the total for the customer, and select the nearest grocery store according to the customer's home address. Also, the system will calculate the delivery fee according to the distance from the store to the customer's home. After the transaction is done, there will be a delivery bar which tracks the location and status of the items.

A customer can be upgraded to a member if he is willing to pay a membership fee or the total amount of money he has spent exceeds certain amount. If a customer is a membership, the price shown on the shopping page will be different from a regular customer, there will be some discount for some items.

1 direct shopping

receipt

check out

← Patrick & Leo

